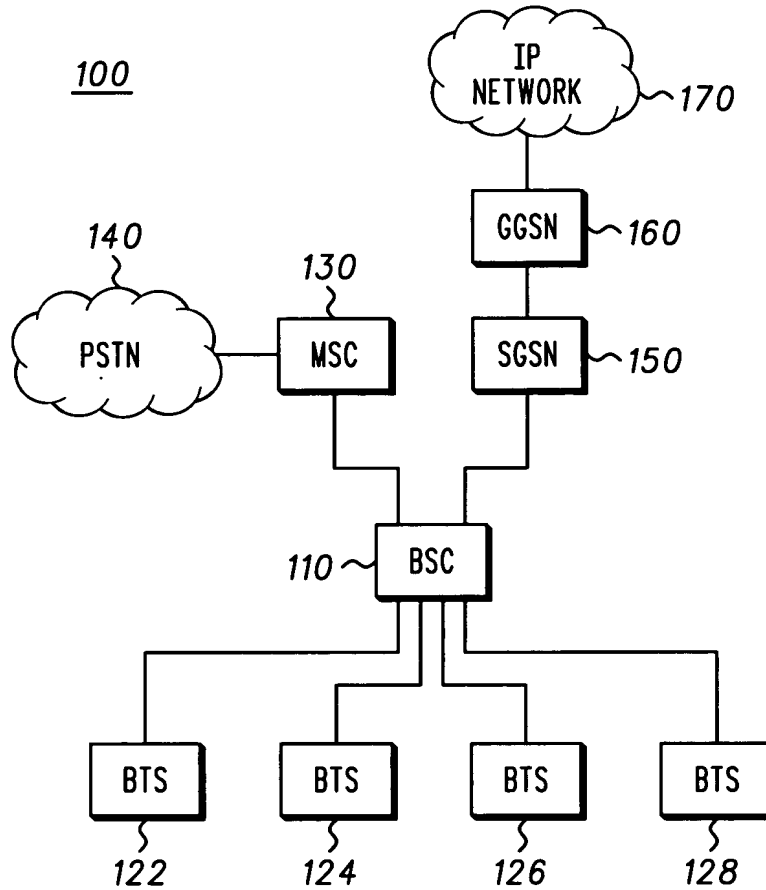




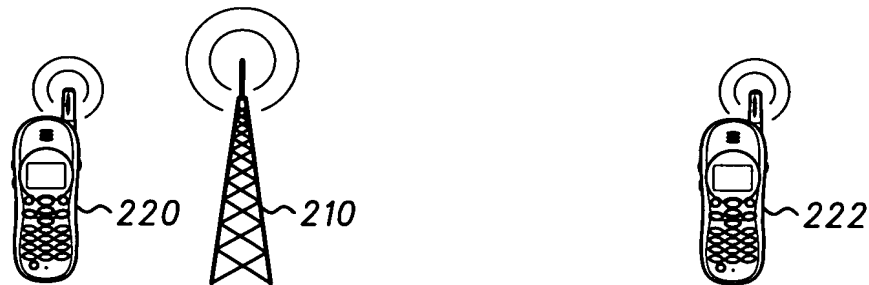
**GSM NETWORK**



**FIG. 1**

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TIMING ADVANCE  
USED TO INSURE TDM FRAME IS RECEIVED AT  
THE BTS AT THE CORRECT TIME



A MS NEXT TO THE CELL SITE  
HAS ZERO TIMING ADVANCE

A MS AT THE EDGE OF THE CELL HAS  
THE HIGHEST ADVANCE FOR THAT CELL  
-MS STARTS TRANSMISSION EARLIER TO  
OVERCOME THE PROPAGATION DELAY

***FIG. 2***

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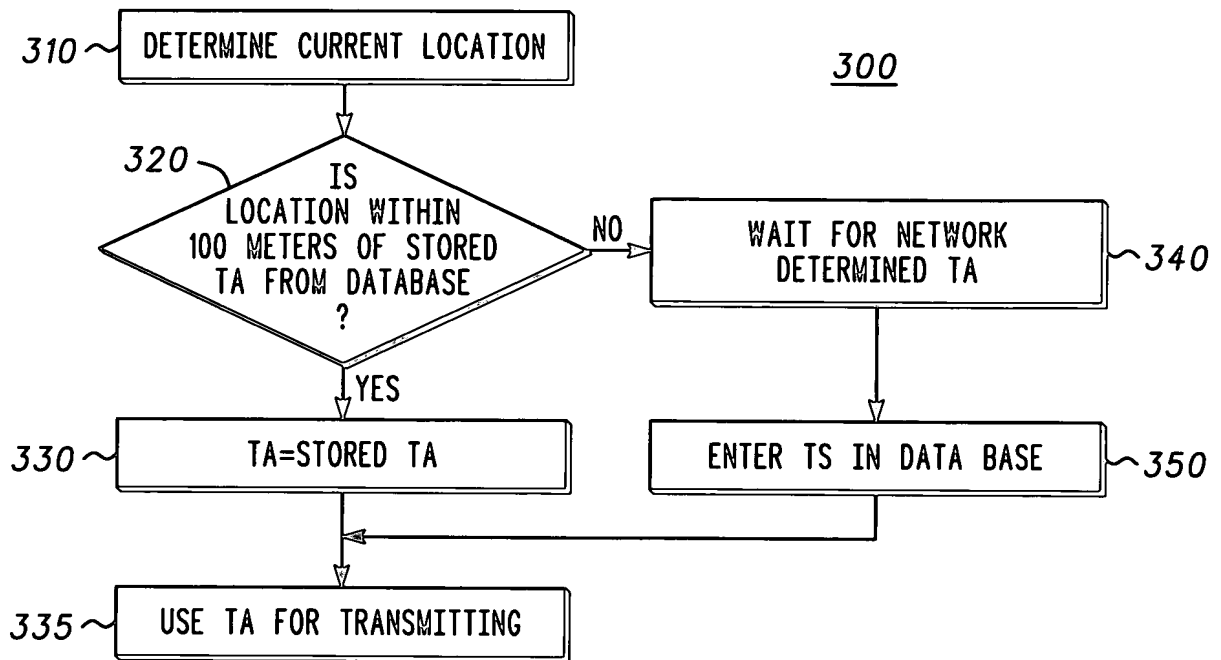


FIG. 3

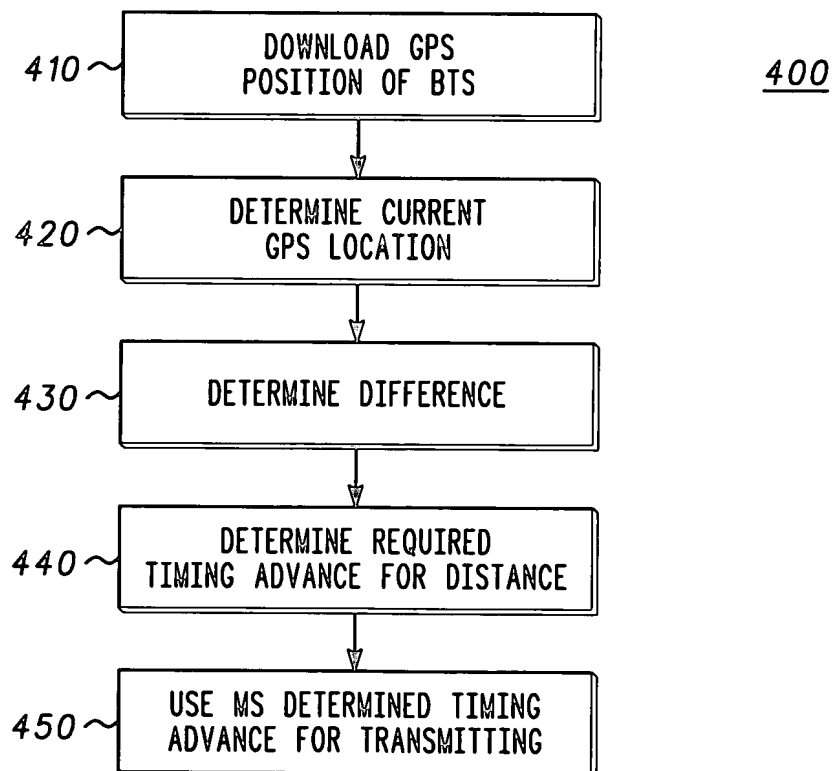
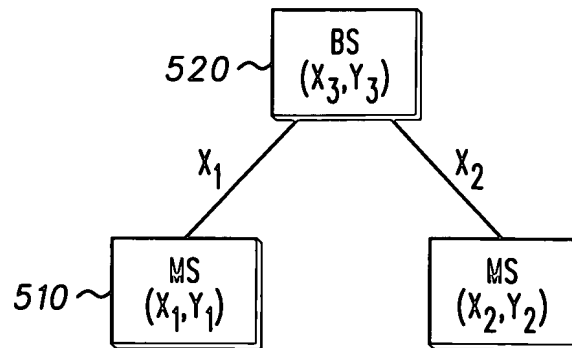


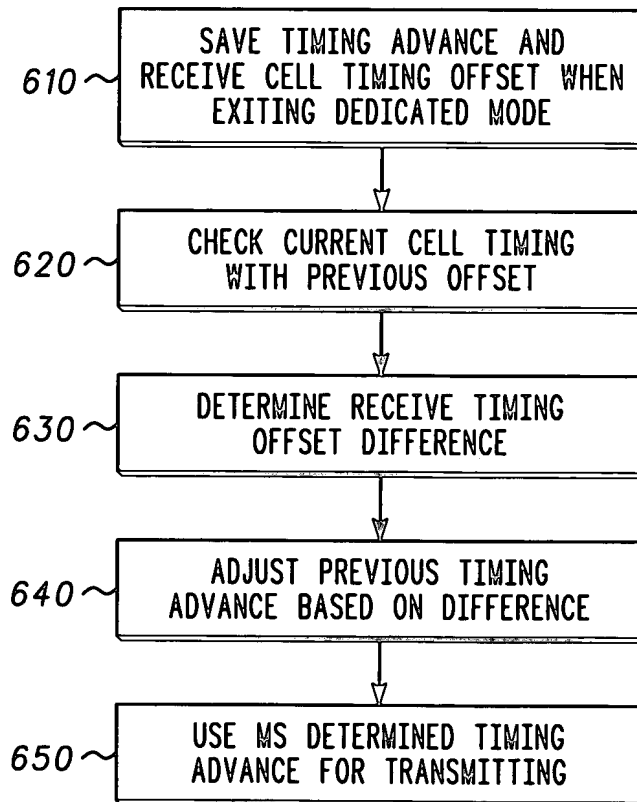
FIG. 4

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*FIG. 5*

600



*FIG. 6*

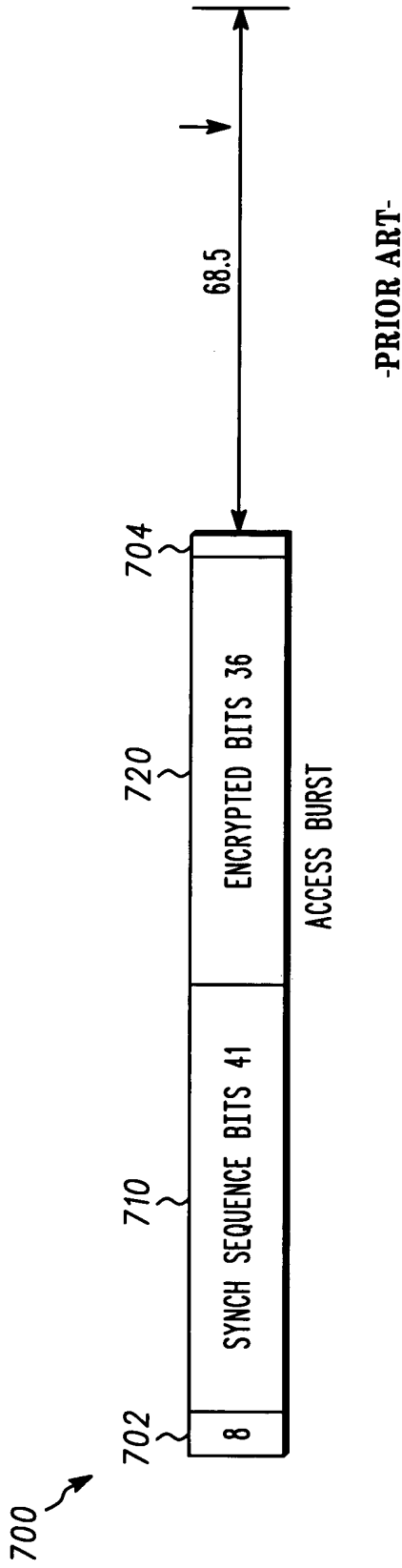


FIG. 7

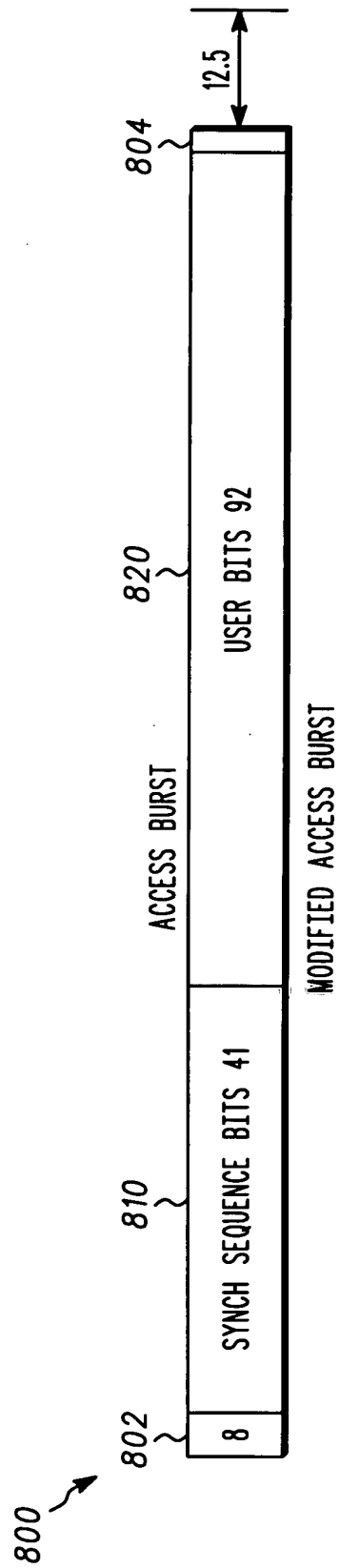


FIG. 8

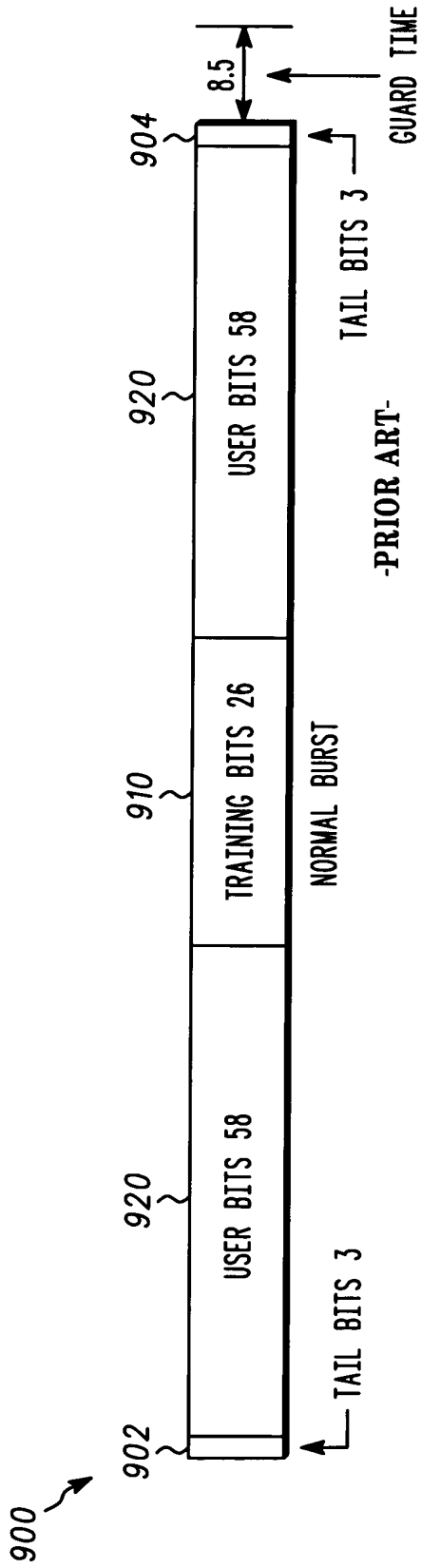


FIG. 9

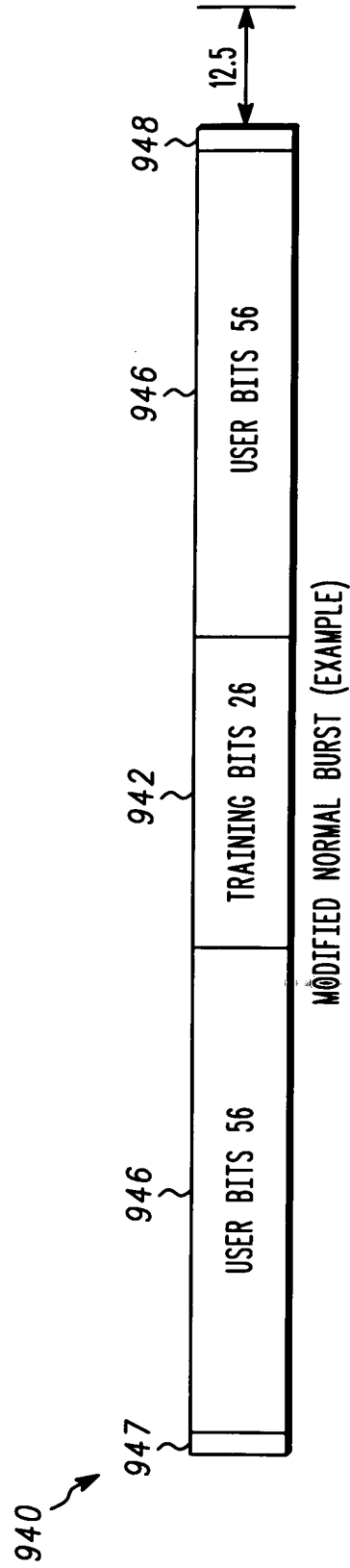


FIG. 10